

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

BP AMERICA INC.  
Attn. Schoettle E.  
200 East Randolph Drive, MC 2207A  
Chicago, Illinois 60601  
UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION  
APR 23 2003  
LAW DEPARTMENT (PCT Rule 44.1)

Date of mailing  
(day/month/year)

15/04/2003

Applicant's or agent's file reference

37318-00

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 02/17154

International filing date  
(day/month/year)

31/05/2002

Applicant

BP CORPORATION NORTH AMERICA INC.

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90b/s.1 and 90b/s.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (In some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk  
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Fax: (+31-70) 340-3016

Authorized officer

Toñi Muñoz-Manneken

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>37318-00</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 02/ 17154</b>	International filing date (day/month/year) <b>31/05/2002</b>	(Earliest) Priority Date (day/month/year) <b>31/07/2001</b>
Applicant <b>BP CORPORATION NORTH AMERICA INC.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐

**Certain claims were found unsearchable** (See Box I).

3. ☐

**Unity of invention is lacking** (see Box II).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

1



None of the figures.

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C10G29/00 C10G69/12 C10G29/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 996 128 A (ESPENSCHIED WILTON F ET AL) 7 December 1976 (1976-12-07) claim 1	25
A	US 6 059 962 A (ALEXANDER BRUCE D ET AL) 9 May 2000 (2000-05-09) cited in the application column 8, line 32 - line 50 column 14, line 29 - line 52; claim 1; figure 1; example 1 column 10, line 61 - line 67	1-25
A	US 5 336 820 A (OWEN HARTLEY ET AL) 9 August 1994 (1994-08-09) column 5, line 31 - line 37; claims 1,8,13; figure 1	1-25
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the International filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

2 April 2003

Date of mailing of the international search report

15/04/2003

Name and mailing address of the ISA

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Authorized officer

Deurinck, P

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 024 865 A (ALEXANDER BRUCE D ET AL) 15 February 2000 (2000-02-15) cited in the application claims 1-3; figure 1 ---	1-25
A	US 5 863 419 A (ALEXANDER BRUCE D ET AL) 26 January 1999 (1999-01-26) claims 1,17 -----	1-25

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/17154

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3996128	A	07-12-1976	NONE	
US 6059962	A	09-05-2000	AU 747037 B2 AU 5807499 A EP 1029024 A1 JP 2002524607 T WO 0014181 A1	09-05-2002 27-03-2000 23-08-2000 06-08-2002 16-03-2000
US 5336820	A	09-08-1994	NONE	
US 6024865	A	15-02-2000	AU 746953 B2 AU 6026299 A EP 1029025 A2 JP 2002524608 T WO 0014182 A2	09-05-2002 27-03-2000 23-08-2000 06-08-2002 16-03-2000
US 5863419	A	26-01-1999	US 6048451 A EP 0938529 A1 JP 2001508829 T WO 9909117 A1 AU 6026098 A CA 2248159 A1 EP 0902822 A1 JP 2000507303 T WO 9830655 A1	11-04-2000 01-09-1999 03-07-2001 25-02-1999 03-08-1998 16-07-1998 24-03-1999 13-06-2000 16-07-1998